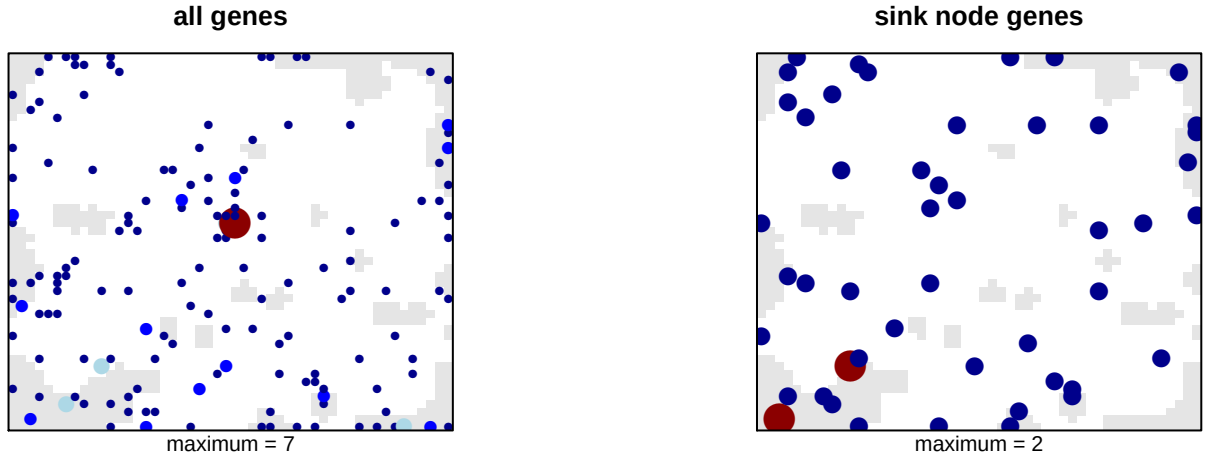
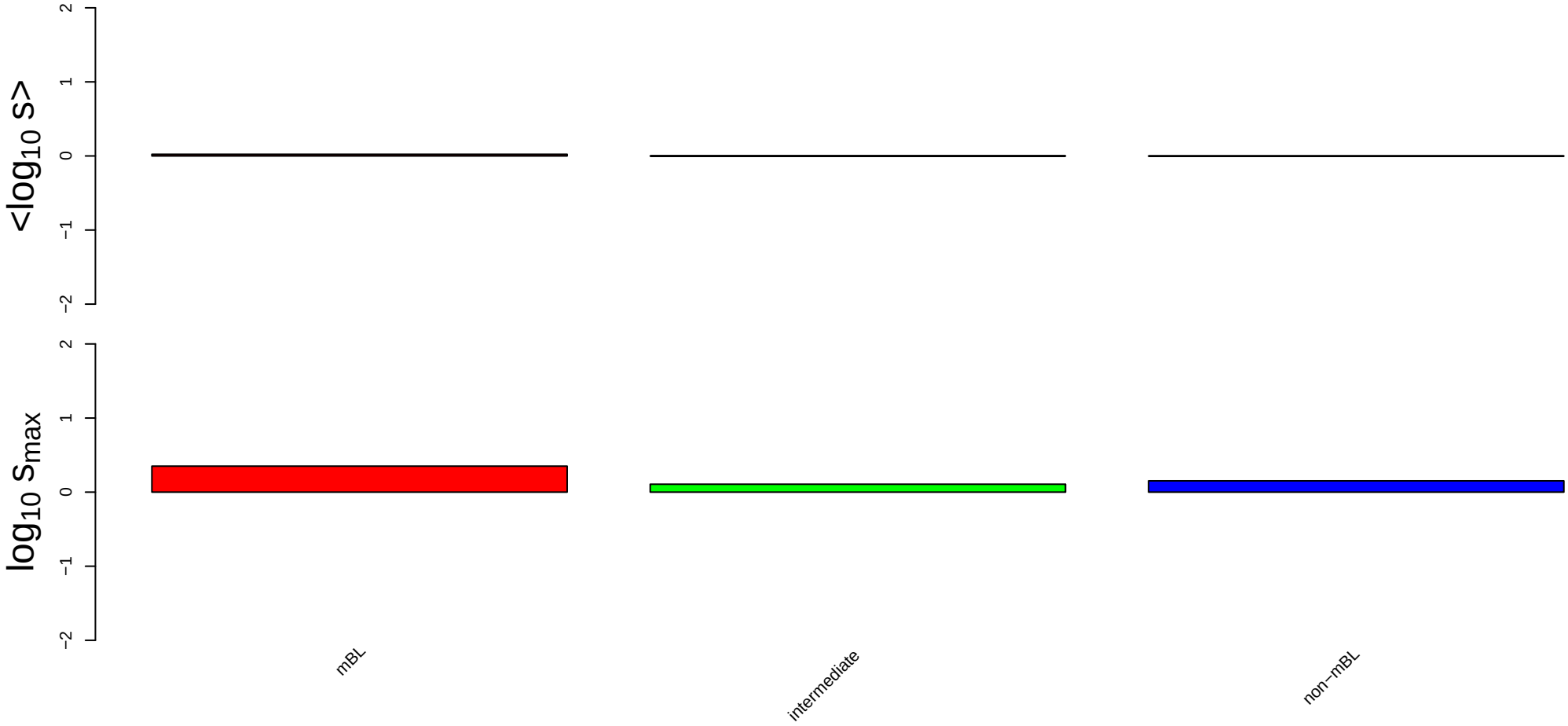
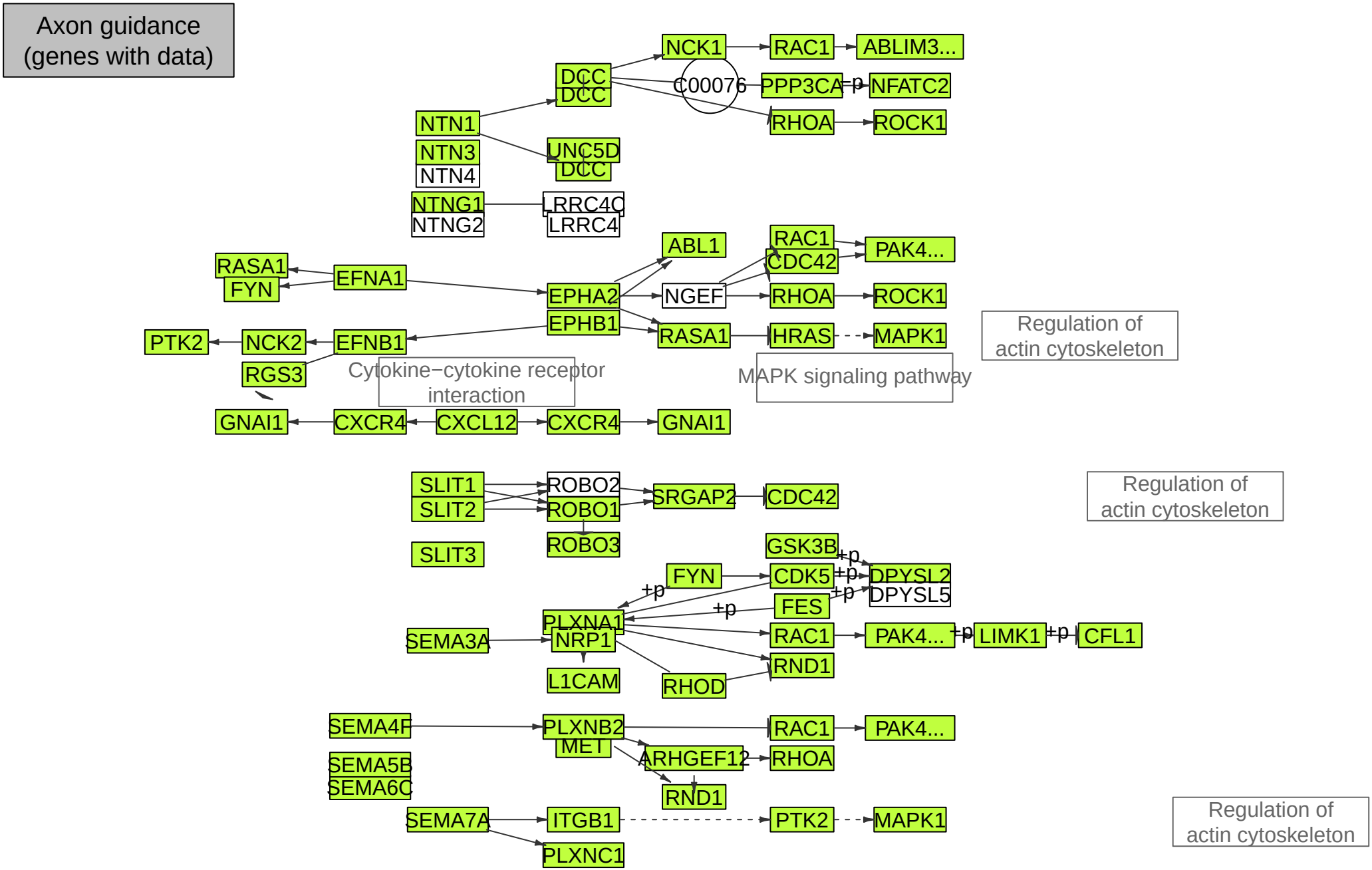
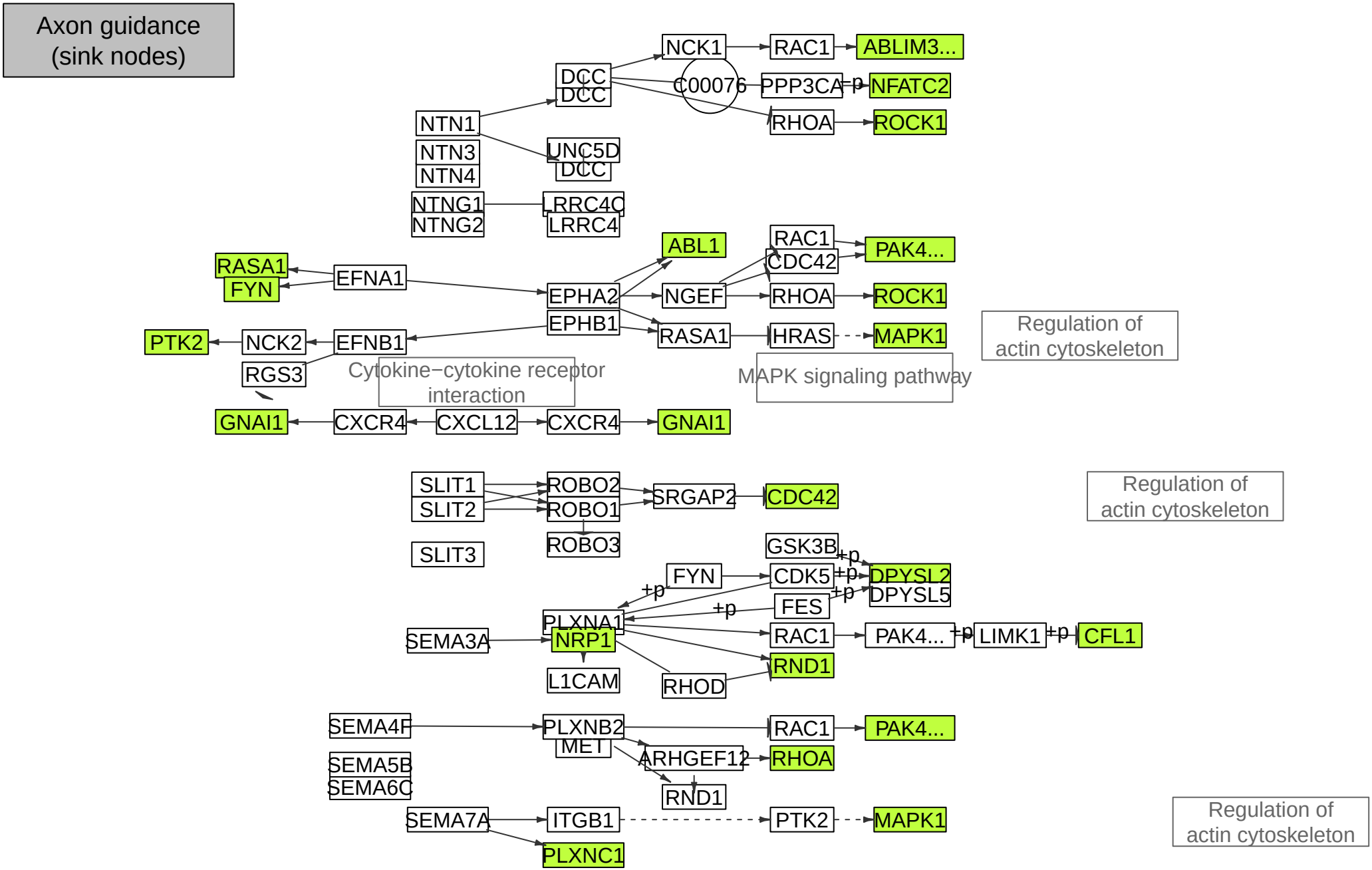
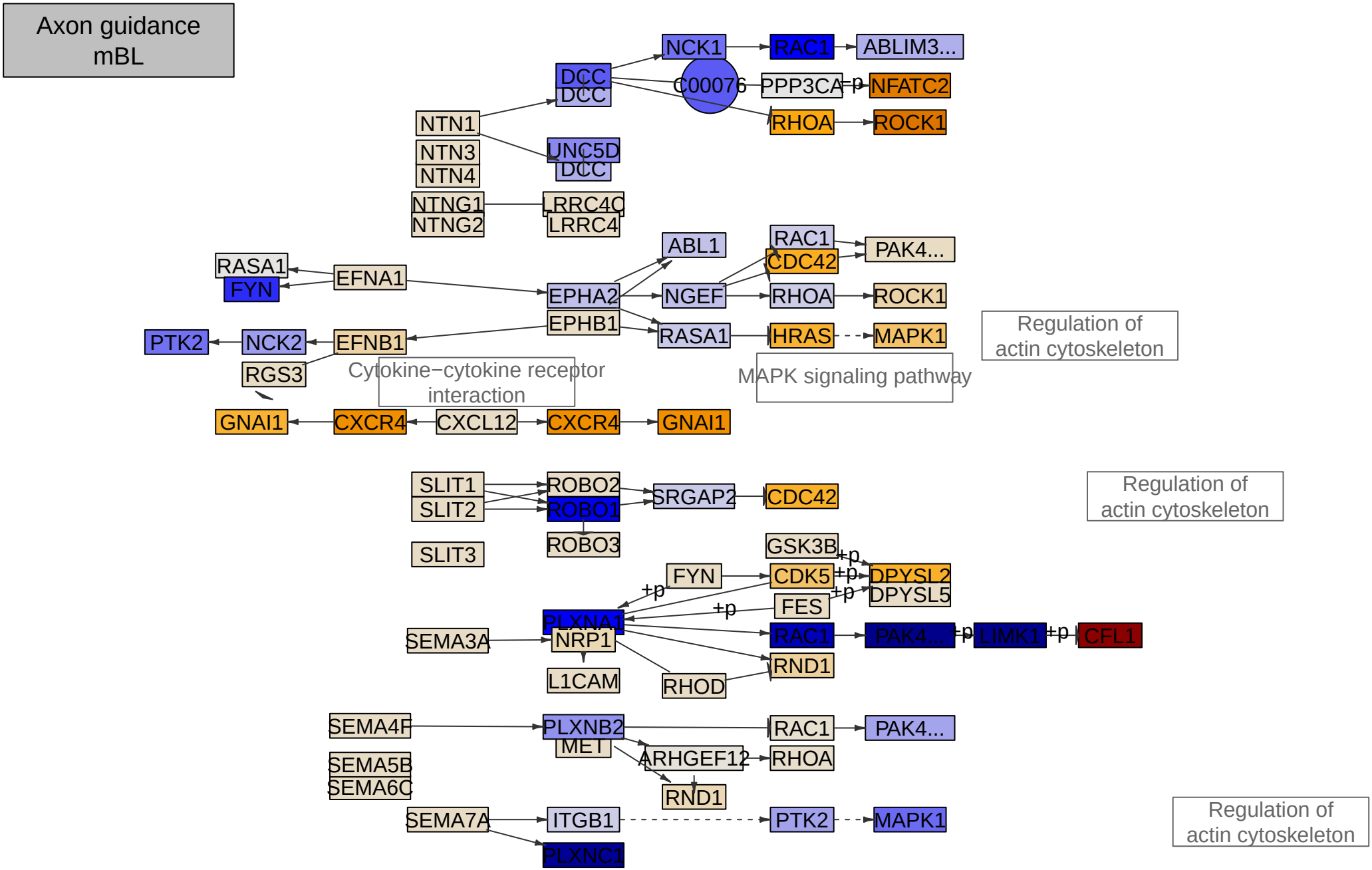
Axon guidance

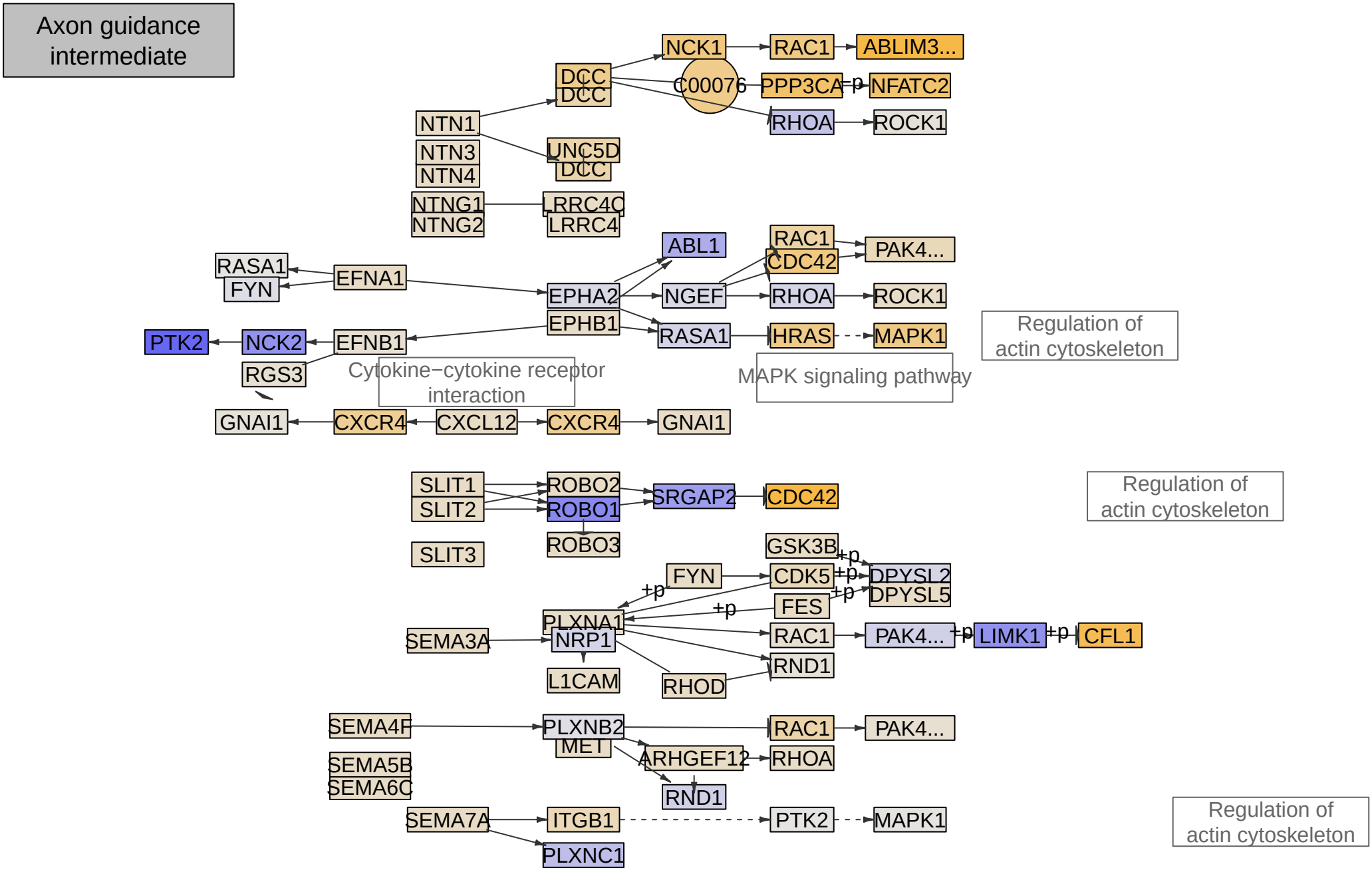


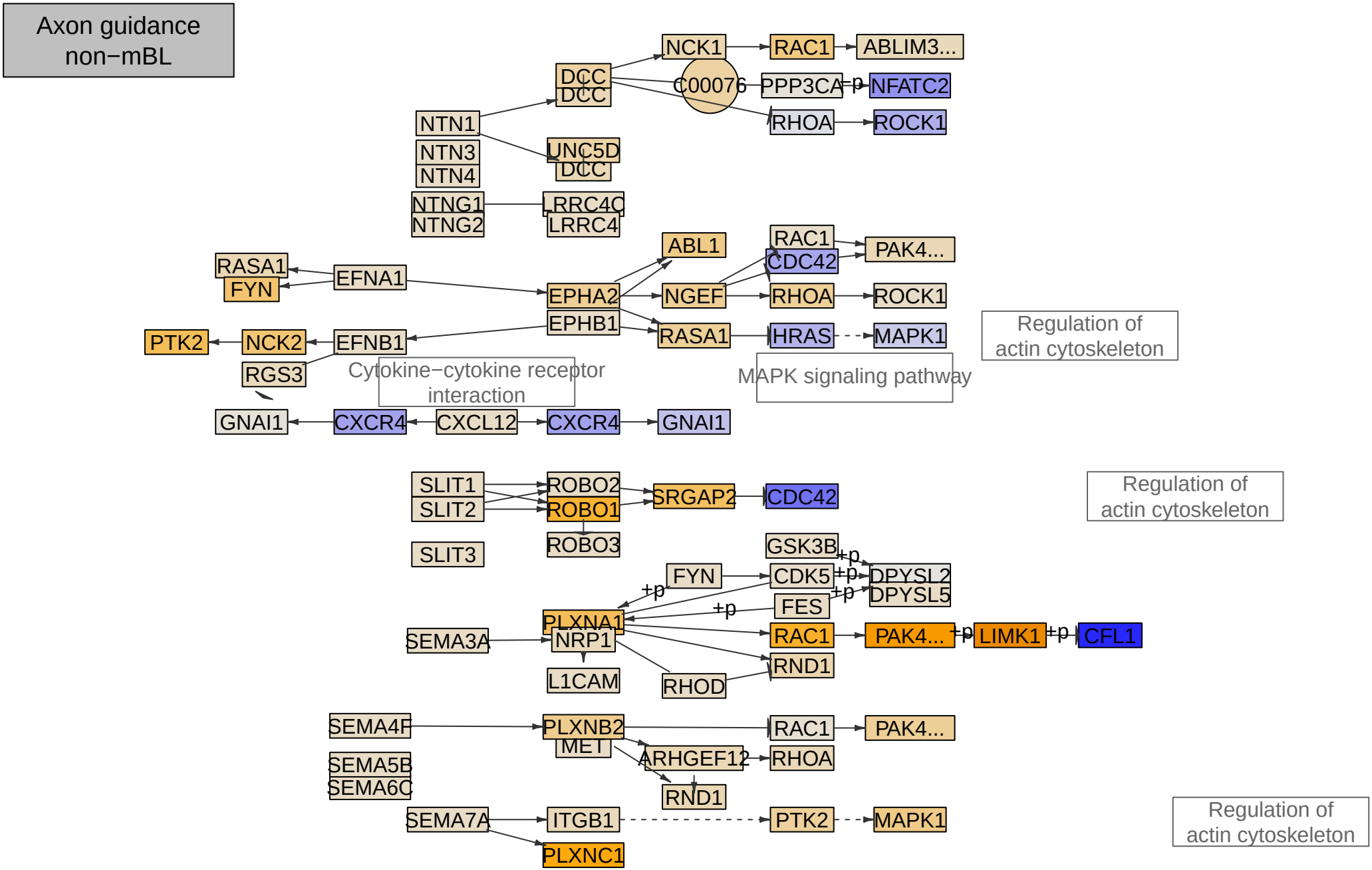



Axon guidance
(genes with data)
NCK1
RAC1
ABLIM3...
DCC
DCC
C00076
PPP3CA
+p
NFATC2
RHOA
ROCK1
NTN1
NTN3
NTN4
UNC5D
DCC
NTNG1
NTNG2
LRRC4C
LRRC4
ABL1
RAC1
CDC42
PAK4...
RASA1
FYN
EFNA1
EPHA2
NGEF
RHOA
ROCK1
EPHB1
RASA1
HRAS
MAPK1
PTK2
NCK2
EFNB1
RGS3
Regulation of
actin cytoskeleton
Cytokine−cytokine receptor
interaction
MAPK signaling pathway
GNAI1
CXCR4
CXCL12
CXCR4
GNAI1
SLIT1
SLIT2
SLIT3
ROBO2
ROBO1
ROBO3
SRGAP2
CDC42
Regulation of
actin cytoskeleton
GSK3B
+p
FYN
CDK5
+p
DPYSL2
+p
DPYSL5
+p
FES
+p
PLXNA1
SEMA3A
NRP1
RAC1
PAK4...
+p
LIMK1
+p
CFL1
RND1
L1CAM
RHOD
SEMA4F
PLXNB2
RAC1
PAK4...
MET
ARHGEF12
RHOA
SEMA5B
SEMA6C
RND1
SEMA7A
ITGB1
PTK2
MAPK1
PLXNC1
Regulation of
actin cytoskeleton


Axon guidance
(sink nodes)
NCK1
RAC1
ABLIM3...
DCC
DCC
C00076
PPP3CA
+p
NFATC2
NTN1
RHOA
ROCK1
NTN3
NTN4
UNC5D
DCC
NTNG1
NTNG2
LRRC4C
LRRC4
ABL1
RAC1
CDC42
PAK4...
RASA1
FYN
EFNA1
EPHA2
NGEF
RHOA
ROCK1
EPHB1
RASA1
HRAS
MAPK1
PTK2
NCK2
EFNB1
RGS3
Cytokine−cytokine receptor interaction
MAPK signaling pathway
Regulation of actin cytoskeleton
GNAI1
CXCR4
CXCL12
CXCR4
GNAI1
SLIT1
SLIT2
ROBO2
ROBO1
SRGAP2
CDC42
ROBO3
SLIT3
Regulation of actin cytoskeleton
GSK3B
+p
FYN
CDK5
+p
DPYSL2
+p
+p
DPYSL5
FES
+p
PLXNA1
SEMA3A
NRP1
RAC1
PAK4...
+p
LIMK1
+p
CFL1
RND1
L1CAM
RHOD
SEMA4F
PLXNB2
RAC1
PAK4...
MET
ARHGEF12
RHOA
SEMA5B
SEMA6C
RND1
SEMA7A
ITGB1
PTK2
MAPK1
PLXNC1
Regulation of actin cytoskeleton


Axon guidance
mBL
NCK1
RAC1
ABLIM3...
DCC
DCC
C00076
PPP3CA
+p
NFATC2
RHOA
ROCK1
NTN1
NTN3
NTN4
UNC5D
DCC
NTNG1
NTNG2
LRRC4C
LRRC4
ABL1
RAC1
CDC42
PAK4...
RASA1
FYN
EFNA1
EPHA2
NGEF
RHOA
ROCK1
EPHB1
RASA1
HRAS
MAPK1
PTK2
NCK2
EFNB1
RGS3
Regulation of
actin cytoskeleton
Cytokine−cytokine receptor
interaction
MAPK signaling pathway
GNAI1
CXCR4
CXCL12
CXCR4
GNAI1
SLIT1
SLIT2
ROBO2
ROBO1
SRGAP2
CDC42
Regulation of
actin cytoskeleton
ROBO3
SLIT3
GSK3B
+p
FYN
CDK5
+p
DPYSL2
+p
+p
DPYSL5
FES
+p
PLXNA1
SEMA3A
NRP1
RAC1
PAK4...
+p
LIMK1
+p
CFL1
RND1
L1CAM
RHOD
SEMA4F
PLXNB2
RAC1
PAK4...
MET
ARHGEF12
RHOA
SEMA5B
SEMA6C
RND1
SEMA7A
ITGB1
PTK2
MAPK1
Regulation of
actin cytoskeleton
PLXNC1


Axon guidance intermediate
NCK1
RAC1
ABLIM3...
DCC
DCC
C00076
PPP3CA
+p
NFATC2
RHOA
ROCK1
NTN1
NTN3
NTN4
UNC5D
DCC
NTNG1
NTNG2
LRRC4C
LRRC4
ABL1
RAC1
CDC42
PAK4...
RASA1
FYN
EFNA1
EPHA2
NGEF
RHOA
ROCK1
EPHB1
RASA1
HRAS
MAPK1
PTK2
NCK2
EFNB1
RGS3
Regulation of actin cytoskeleton
Cytokine−cytokine receptor interaction
MAPK signaling pathway
GNAI1
CXCR4
CXCL12
CXCR4
GNAI1
SLIT1
SLIT2
ROBO2
ROBO1
SRGAP2
CDC42
ROBO3
Regulation of actin cytoskeleton
SLIT3
GSK3B
+p
FYN
CDK5
+p
DPYSL2
DPYSL5
+p
+p
FES
+p
PLXNA1
SEMA3A
NRP1
RAC1
PAK4...
+p
LIMK1
+p
CFL1
RND1
L1CAM
RHOD
SEMA4F
PLXNB2
RAC1
PAK4...
MET
ARHGEF12
RHOA
SEMA5B
SEMA6C
RND1
SEMA7A
ITGB1
PTK2
MAPK1
PLXNC1
Regulation of actin cytoskeleton


Axon guidance
non−mBL
NCK1
RAC1
ABLIM3...
DCC
DCC
C00076
PPP3CA
+p
NFATC2
RHOA
ROCK1
NTN1
NTN3
NTN4
UNC5D
DCC
NTNG1
NTNG2
LRRC4C
LRRC4
ABL1
RAC1
CDC42
PAK4...
RASA1
FYN
EFNA1
EPHA2
NGEF
RHOA
ROCK1
EPHB1
RASA1
HRAS
MAPK1
PTK2
NCK2
EFNB1
RGS3
Regulation of
actin cytoskeleton
Cytokine−cytokine receptor
interaction
MAPK signaling pathway
GNAI1
CXCR4
CXCL12
CXCR4
GNAI1
SLIT1
SLIT2
ROBO2
ROBO1
SRGAP2
CDC42
ROBO3
Regulation of
actin cytoskeleton
SLIT3
GSK3B
+p
FYN
CDK5
+p
DPYSL2
DPYSL5
+p
+p
FES
+p
PLXNA1
SEMA3A
NRP1
RAC1
PAK4...
+p
LIMK1
+p
CFL1
RND1
L1CAM
RHOD
SEMA4F
PLXNB2
RAC1
PAK4...
MET
ARHGEF12
RHOA
SEMA5B
SEMA6C
RND1
SEMA7A
ITGB1
PTK2
MAPK1
PLXNC1
Regulation of
actin cytoskeleton